

FIGURE 1

BEST AVAILABLE COPY

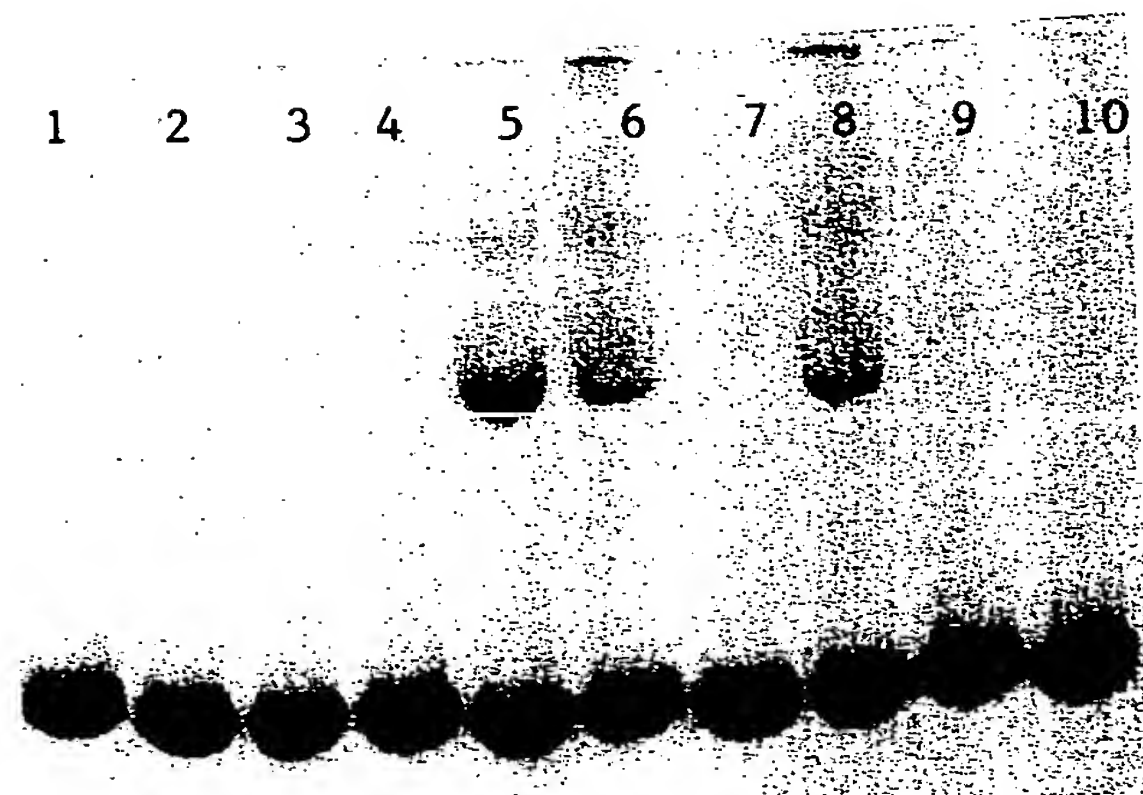


Figure 2

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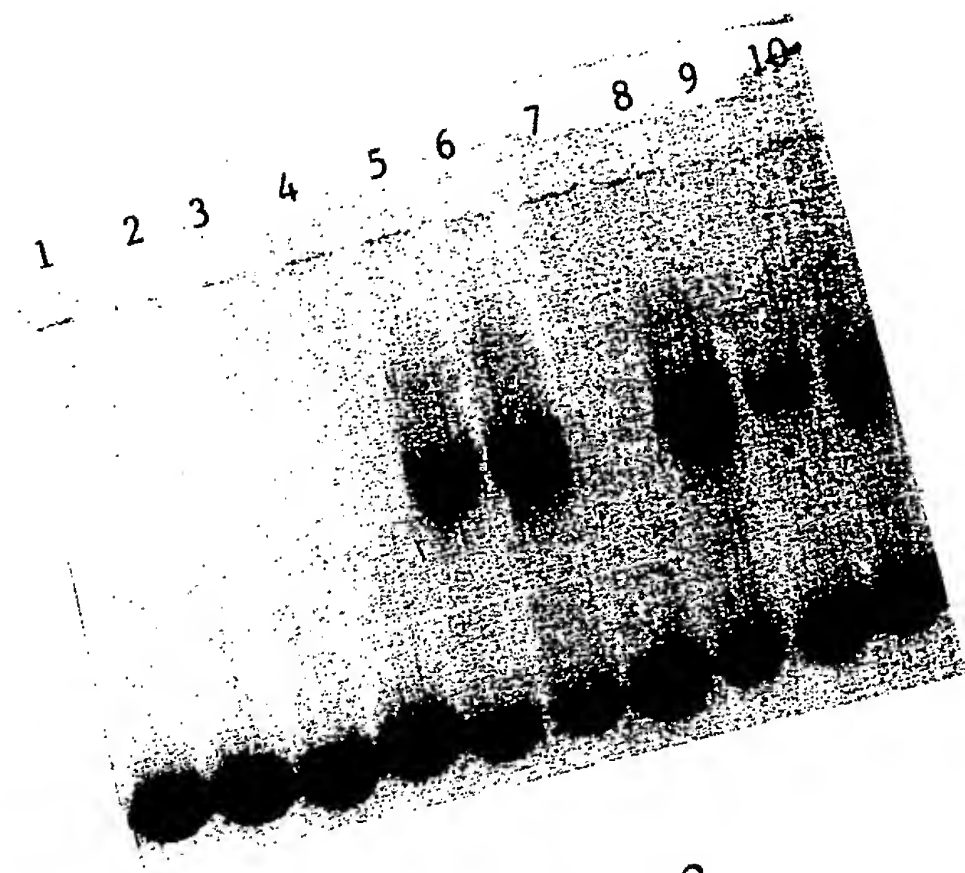


Figure 3

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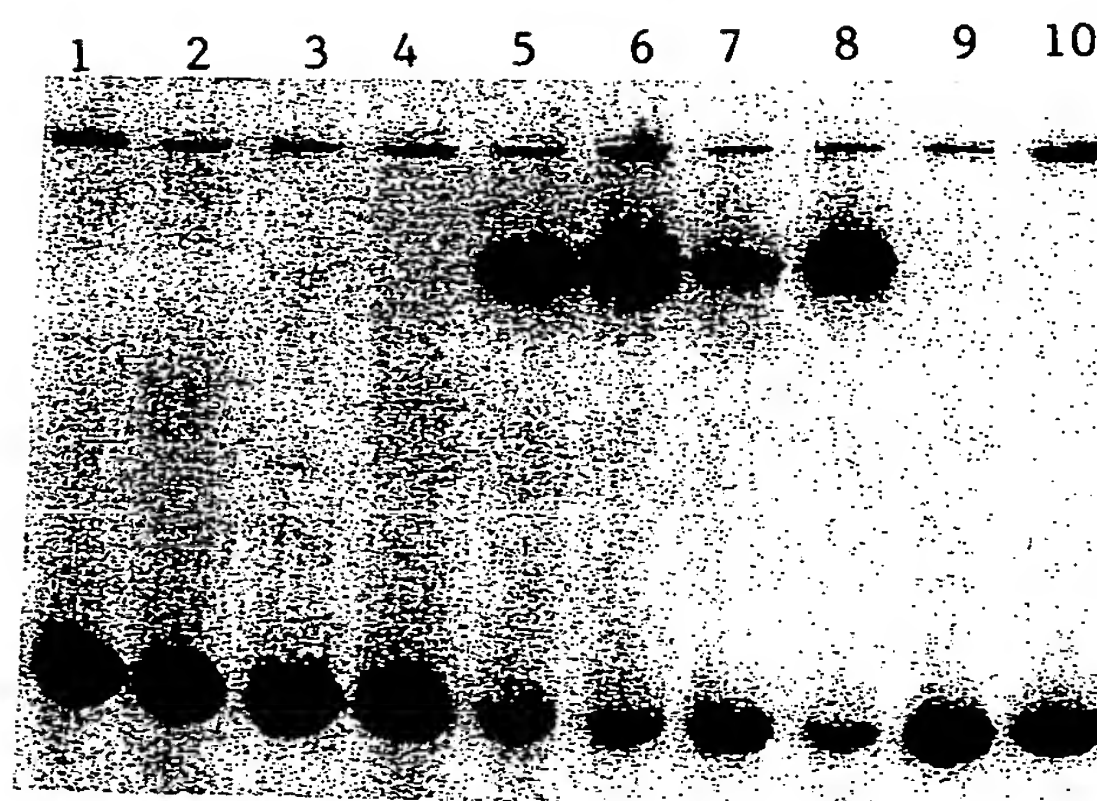


Figure 4

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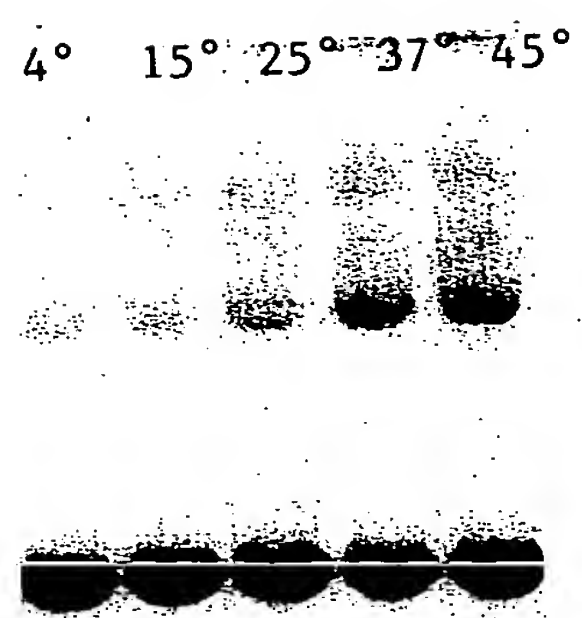


Figure 5

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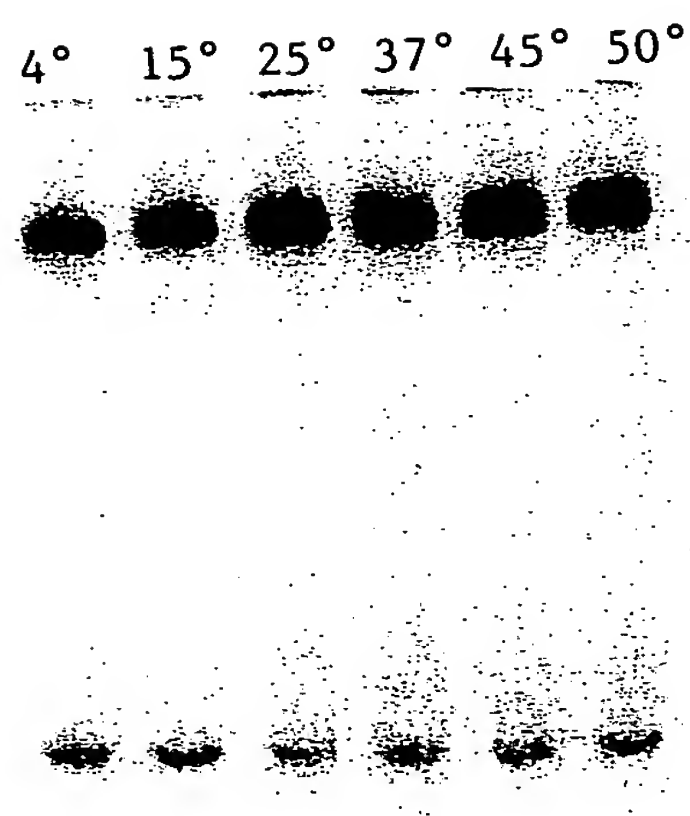


Figure 6

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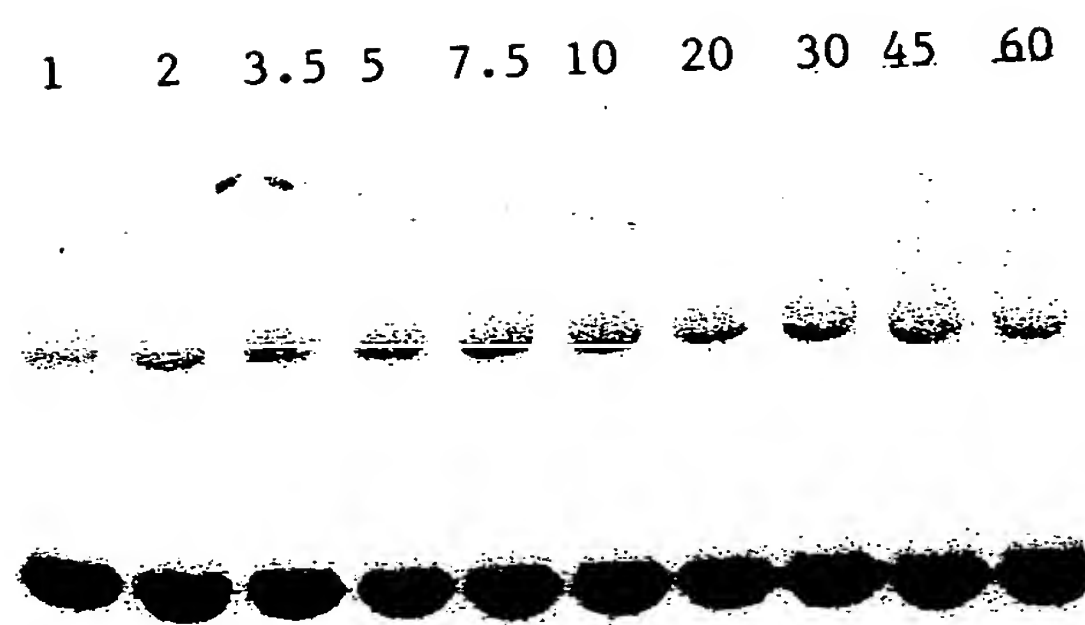


Figure 7

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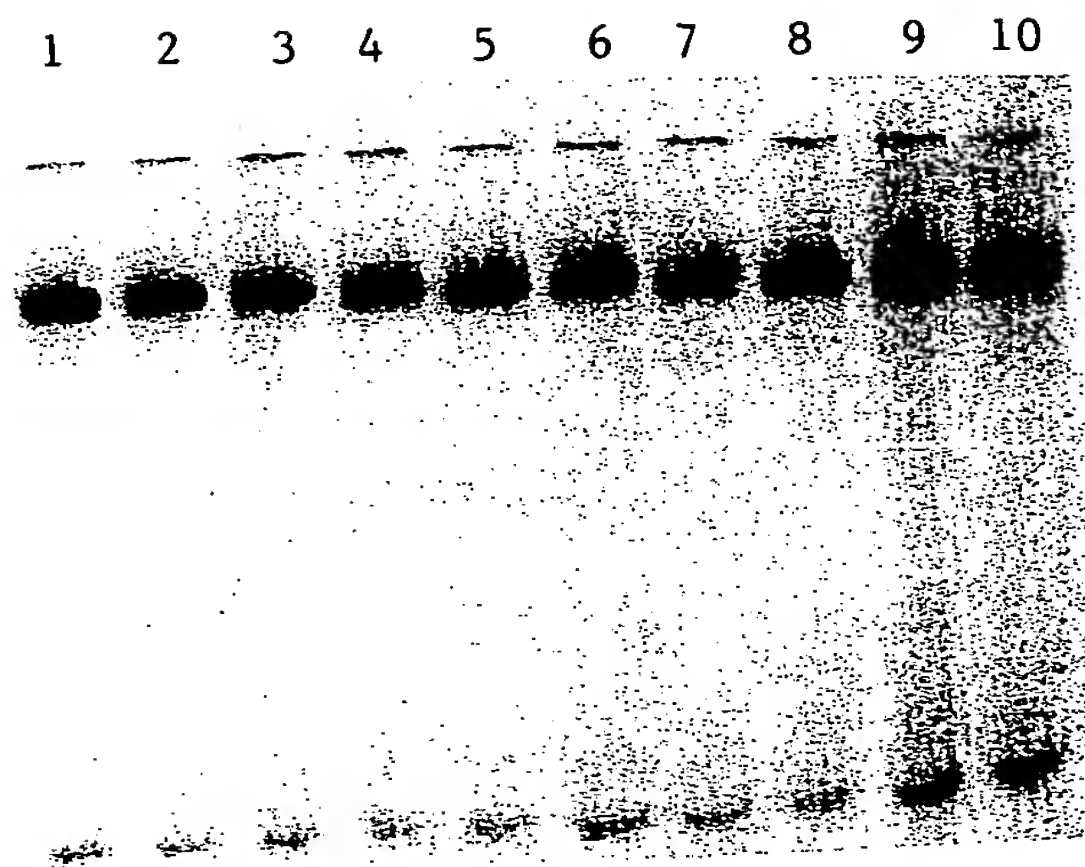


Figure 8



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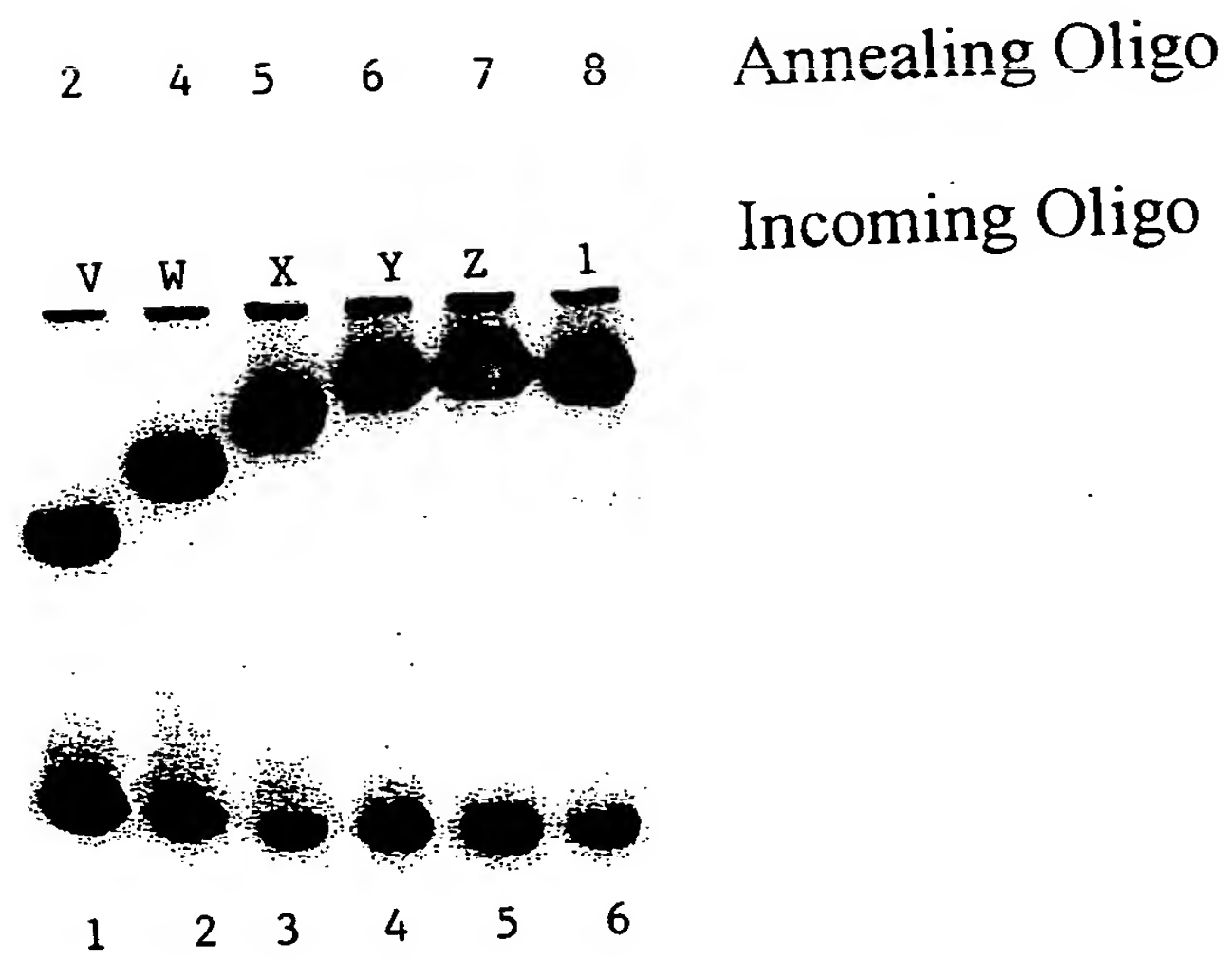


Figure 9

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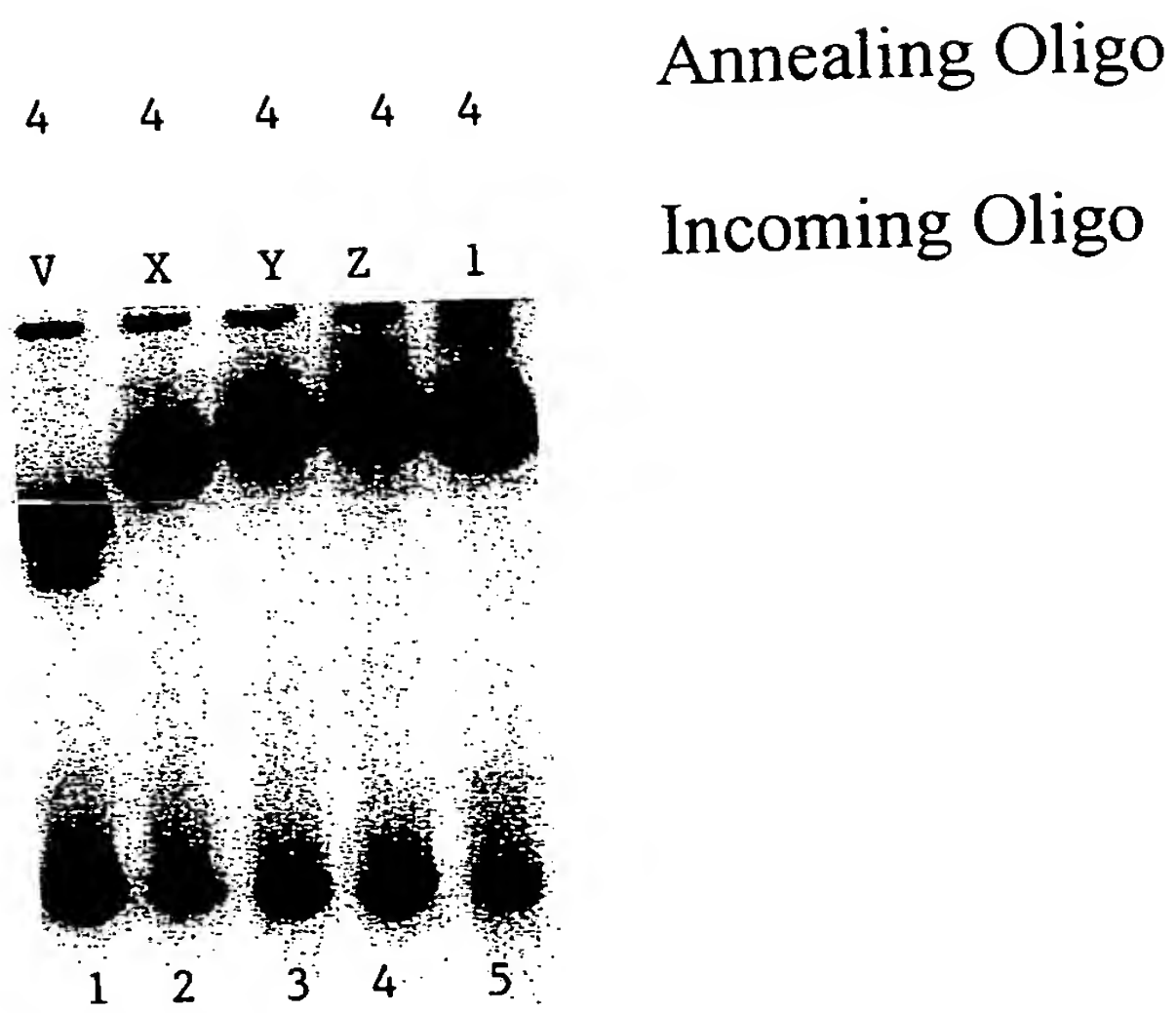


Figure 10

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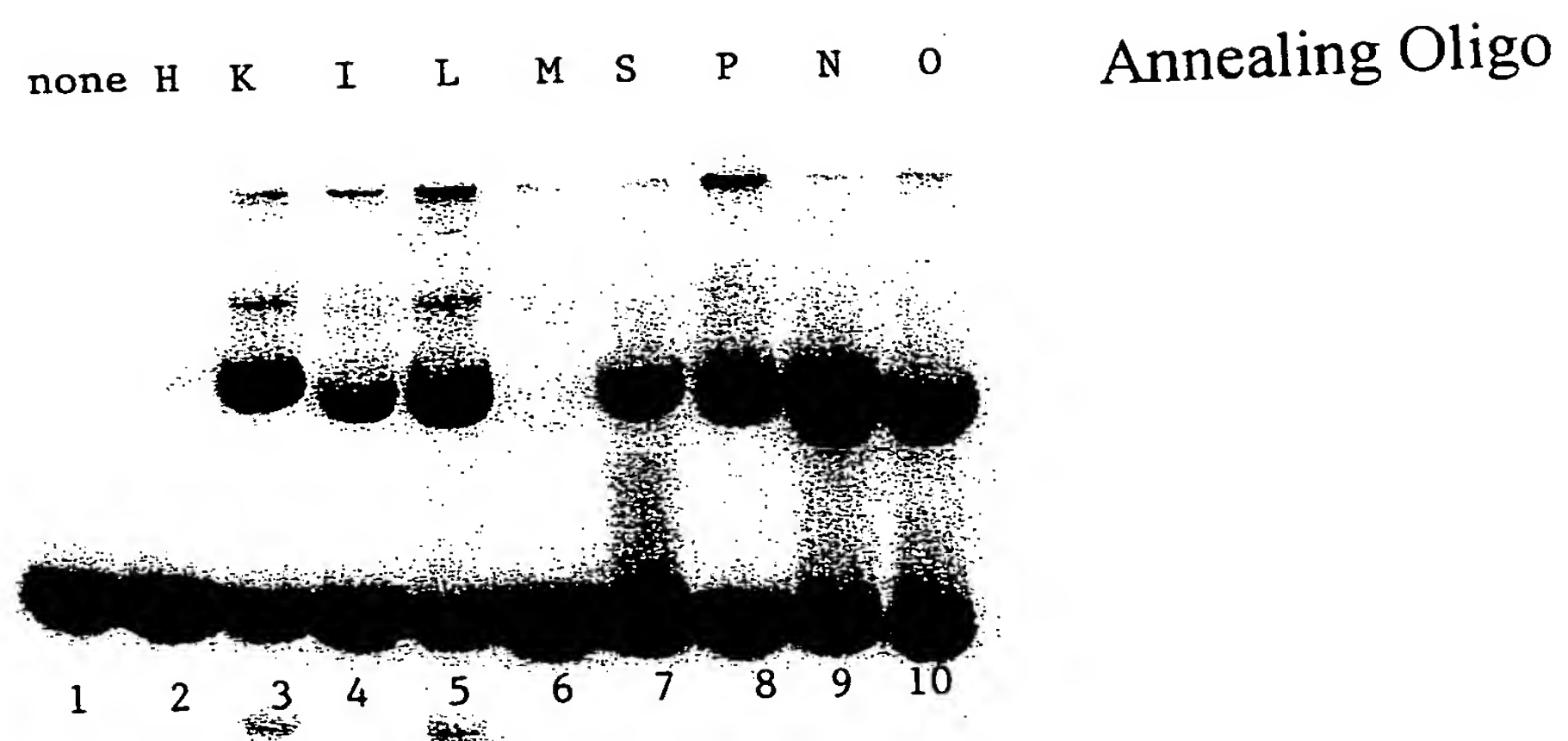


Figure 11

BEST AVAILABLE COPY

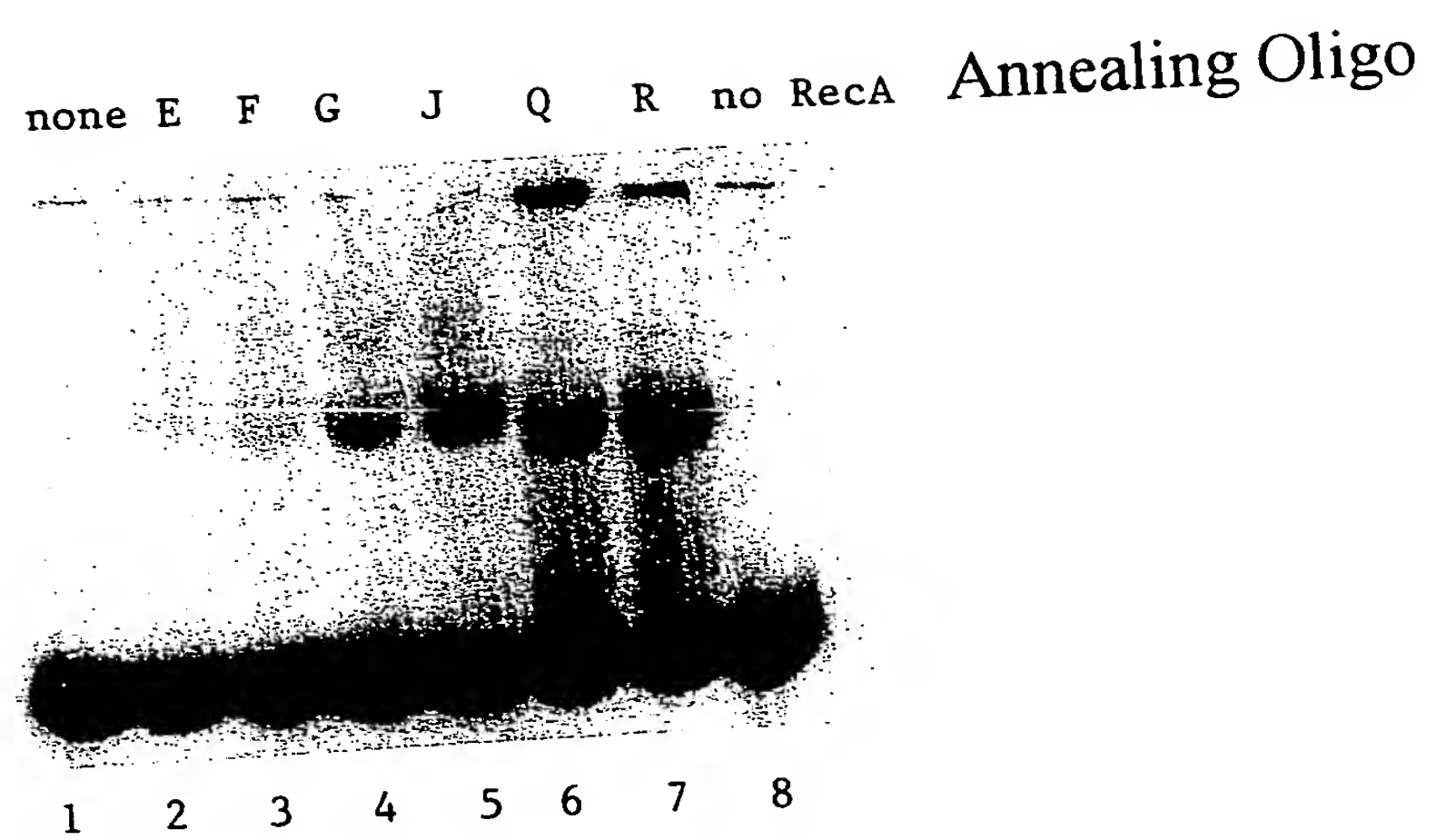


Figure 12

Oligonucleotide Sequence of the Kan<sup>r</sup> Target

1 CAGGGGATCA AGATCTGATC AAGAGACAGG ATGAGGATCG TTTCGCATGA  
51 TTGAACAAGA TGGATTGCAC GCAGGTTCTC CGGCCGCTTG GGTGGAGAGG  
101 CTATTCGGCT ATGACTGGGC ACAACAGACA ATCGGCTGCT CTGATGCCGC  
151 CGTGTTCCGG CTGTCAGCGC AGGGGCGCCC GGTTCTTTTT GTCAAGACCG  
201 ACCTGTCCGG TGCCCTGAAT GAACTGCAGG ACGAGGCAGC GCGGCTATCG  
251 TGGCTGGCCA CGACGGGCGT TCCTTGCGCA GCTGTGCTCG ACGTTGTCAC  
301 TGAAGC

FIGURE 13

# Effect of Annealing Oligo on Targeting Efficiency

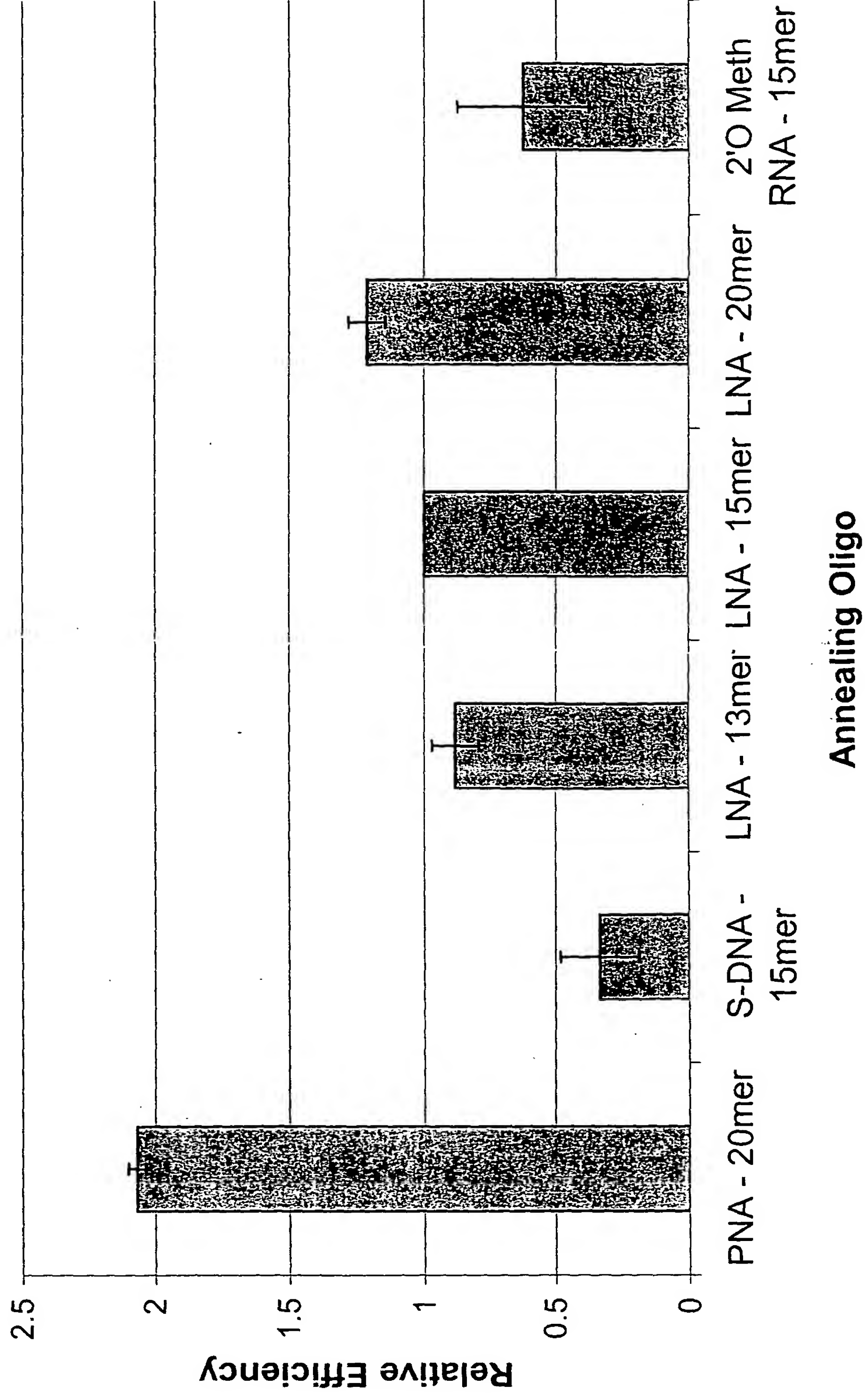


FIGURE 14

Oligonucleotide Sequence of the Hyg<sup>r</sup> Target

1 cgctgagata ggtgcctcac tgattaagca ttggtaactg tcagaccaag  
51 ttactcata tatacttttag attgatttaa aacttcattt ttaatttaaa  
101 aggatctagg tgaagatcct ttttgataat ctcatgacca aaatccctta  
151 acgtgagttt tcgttccact gagcgtcaga ccccgtagaa aagatcaaag  
201 gatcttcttg agatcctttt tttctgcgcg taatctgctg cttgcaaaca  
251 aaaaaaccac cgctaccagc ggtggtttgt ttgccggatc aagagctacc  
301 aactcttttt ccgaaggtaa ctggcttcag cagagcgcag ataccaaata  
351 ctgtccttct agtgtagccg tagttaggcc accacttcaa gaactctgta  
401 gcaccgccta catacctcgc tctgctaatc ctgttaccag tggctgctgc  
451 cagtggcgat aagtcgtgtc ttaccggg

FIGURE 15

Effect of Annealing oligo on dD-loop formation in Hyg(rep)

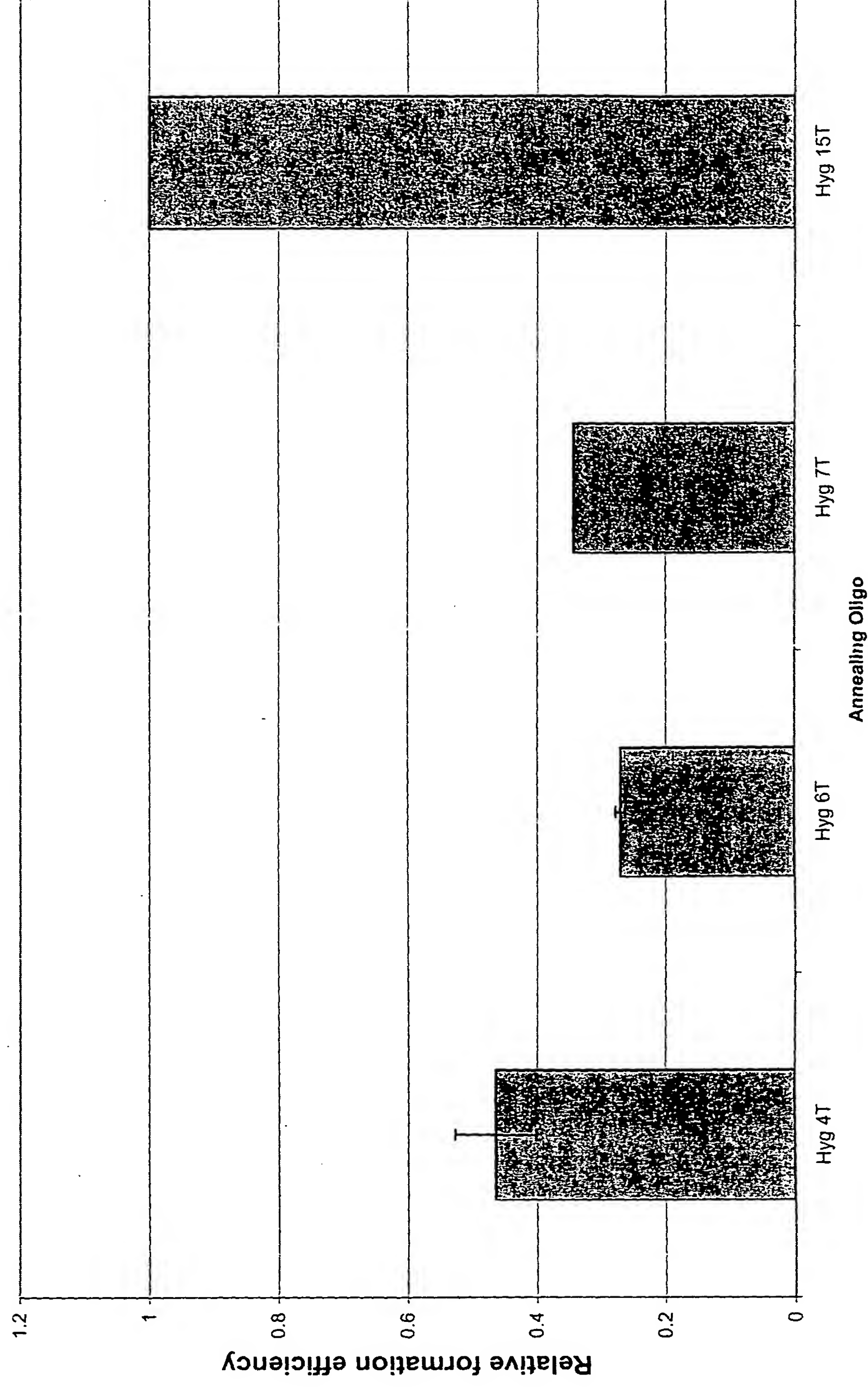


FIGURE 16



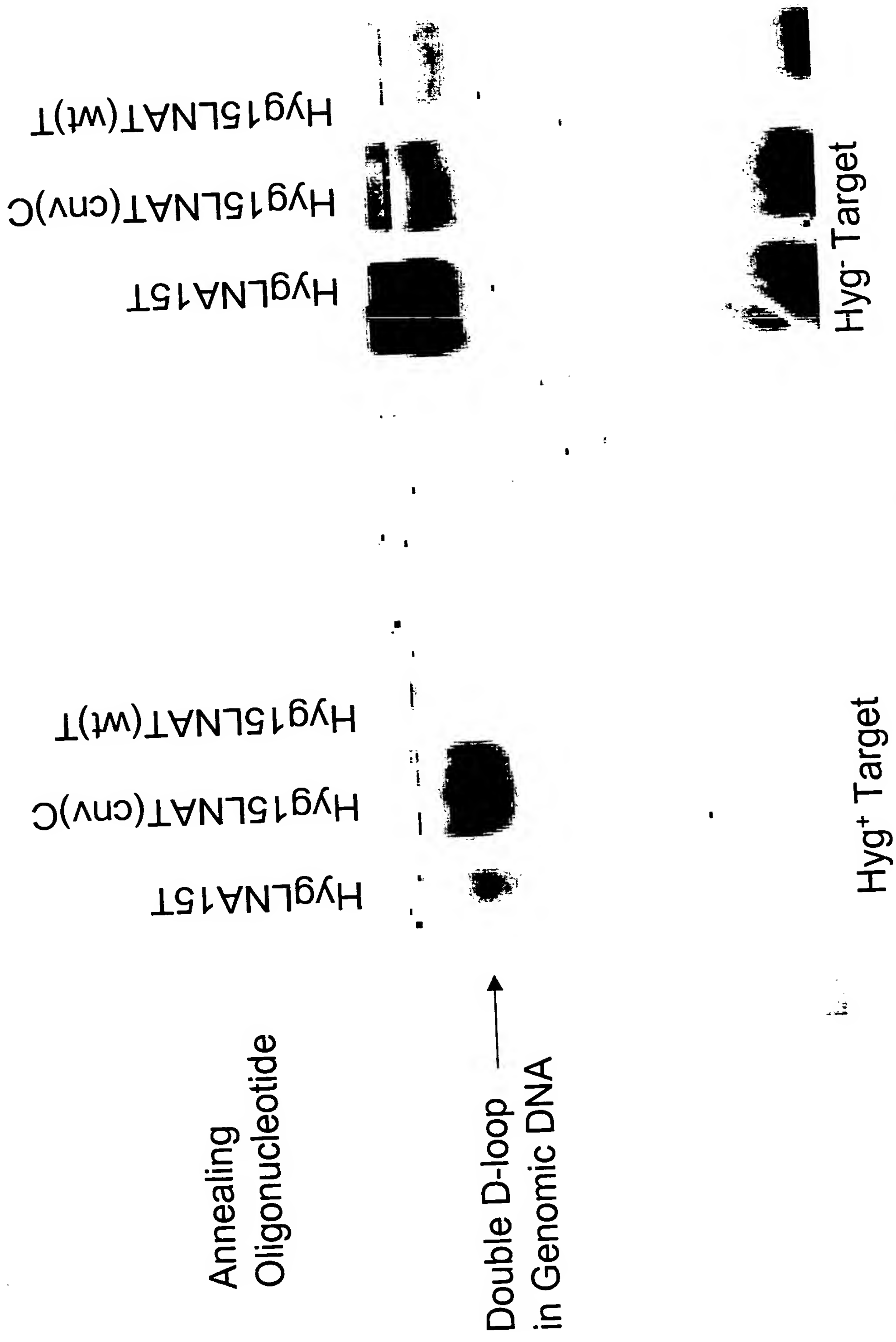


FIGURE 17